



ENTERED

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/020,786

DATE: 04/10/2002

TIME: 14:16:45

Input Set : A:\P1793R1.txt

Output Set: N:\CRF3\04102002\J020786.raw

3 <110> APPLICANT: Simmons, Laura C.
4 Klimowski, Laura
5 Reilly, Dorothea
6 Yansura, Daniel G.
8 <120> TITLE OF INVENTION: PROKARYOTICALLY PRODUCED ANTIBODIES AND USES THEREOF
10 <130> FILE REFERENCE: P1793R1
12 <140> CURRENT APPLICATION NUMBER: US 10/020,786
C--> 13 <141> CURRENT FILING DATE: 2002-03-26
15 <150> PRIOR APPLICATION NUMBER: US 60/256,164
16 <151> PRIOR FILING DATE: 2000-12-14
18 <160> NUMBER OF SEQ ID NOS: 11
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 3300
22 <212> TYPE: DNA
23 <213> ORGANISM: Artificial sequence
25 <220> FEATURE:
26 <223> OTHER INFORMATION: anti-TF vector
28 <400> SEQUENCE: 1
29 gaattcaact tctccatact ttggataagg aaatacacagac atgaaaaaatc 50
31 tcattgctga gttgttattt aagcttgccc aaaaagaaga agagtcgaat 100
33 gaactgtgtg cgcaggtaga agctttggag attatcgtca ctgcaatgct 150
35 tcgcaatatg cgcgaaaatg accaacagcg gttgattgat caggtagagg 200
37 gggcgctgta cgaggtaaag cccgatgccg gcattcctga cgacgatacg 250
39 gagctgctgc gcgattacgt aaagaagtta ttgaagcatc ctcgtcagta 300
41 aaaagttaat cttttcaaca gctgtcataa agttgtcacg gccgagactt 350
43 atagtcgctt tgtttttatt ttttaattga tttgtaacta gtacgcaagt 400
45 tcacgtaaaa agggatatcta gaattatgaa gaagaatatc gcattttctc 450
47 ttgcatctat gttcgttttt tctattgcta caaacgcgta cgctgatatc 500
49 cagatgaccc agtccccgag ctccctgtcc gcctctgtgg gcgatagggt 550
51 caccatcacc tgcagagcca gtcgcgacat caagagctat ctgaactggt 600
53 atcaacagaa accaggaaaa gctccgaaag tactgattta ctatgctact 650
55 agtctcgtcg aaggagtcce ttctcgcttc tctggatccg gttctgggac 700
57 ggattacaact ctgaccatca gcagtcctgca gccagaagac ttcgcaactt 750
59 attactgtct tcagcacgga gagtctccat ggacatttgg acagggtacc 800
61 aagggtggaga tcaaacgaac tgtggctgca ccactctgtc tcatcttccc 850
63 gccatctgat gagcagttga aatctggaac tgcttctggt gtgtgcctgc 900
65 tgaataactt ctatcccaga gaggccaaag tacagtggaa ggtggataac 950
67 gccctccaat cgggtaactc ccaggagagt gtcacagagc aggacagcaa 1000
69 ggacagcacc tacagcctca gcagcaccct gacgctgagc aaagcagact 1050
71 acgagaaaca caaagtctac gcctgcgaag taccatca gggcctgagc 1100
73 tcgcccgtca caaagagctt caacagggga gagtgttaat taaatcctct 1150
75 acgcccggacg catcgtggcg agctcggtag ccggggatct aggcctaacg 1200
77 ctcgggttgcc gccgggcggt ttttattggt gccgacgcgc atctcgaatg 1250

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/020,786

DATE: 04/10/2002

TIME: 14:16:45

Input Set : A:\P1793R1.txt

Output Set: N:\CRF3\04102002\J020786.raw

```

79 aactgtgtgc gcaggtagaa gctttggaga ttatcgtcac tgcaatgctt 1300
81 cgcaatatgg cgcaaatga ccaacagcgg ttgattgac aggtagaggg 1350
83 ggcgctgtac gaggtaaagc ccgatgccag cattcctgac gacgatacgg 1400
85 agctgctgcg cgattacgta aagaagttat tgaagcatcc tcgtcagtaa 1450
87 aaagttaatc ttttcaacag ctgtcataaa gttgtcacgg ccgagactta 1500
89 tagtcgcttt gtttttattt tttaatgtat ttgtaactag tacgcaagtt 1550
91 cacgtaaaaa gggatatctag aattatgaag aagaatatcg catttcttct 1600
93 tgcattctatg ttctgttttt ctattgctac aaacgcgtac gctgagggtt 1650
95 agctgggtgga gtctggcggg ggccgtggtg agccaggggg ctcactccgt 1700
97 ttgtcctgtg cagcttctgt cttcaatatt aaggagtact acatgcactg 1750
99 ggtccgtcag gcccgggga agggcctgga atgggttga ttgattgac 1800
101 cagagcaagg caacacgac tatgaccga agttccagga ccgtgccact 1850
103 ataagcgctg acaattccaa aaacacagca tacctgcaga tgaacagcct 1900
105 gcgtgctgag gacactgccg tctattattg tgctcgagac acggccgctt 1950
107 acttcgacta ctgggggtcaa ggaacctggt tcaccgtctc ctccggcctcc 2000
109 accaagggcc catcggtctt cccctggtga ccctcctcca agagcacctc 2050
111 tggggggcaca ggcggcctgg gctgcctggt caaggactac ttccccgaac 2100
113 cgggtgacggt gtcgtggaac tcaggcgccc tgaccagcgg cgtgcacacc 2150
115 ttcccggtcg tcctacagtc ctcaggactc tactccctca gcagcgtggt 2200
117 gactgtgccc tctagcagct tgggcaccca gacctacac tgcaacgtga 2250
119 atcacaagcc cagcaacacc aaggtggaca agaaagttga gcccgaatct 2300
121 tgtgacaaaa ctacacatg cccaccgtgc ccagcacctg aactcctggg 2350
123 gggaccgtca gtcttctct tcccccaaa acccaaggac acctcatga 2400
125 tctcccgga cctgaggtc acatgcgtgg tgggtggacgt gagccacgaa 2450
127 gaccctgagg tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa 2500
129 tgccaagaca aagccgcggg aggagcagta caacagcacg taccgtgtgg 2550
131 tcagcgtcct caccgtcctg caccaggact ggctgaatgg caaggagtac 2600
133 aagtgaagg tctccaacaa agccctccca gcccctatcg agaaaaccat 2650
135 ctccaaagcc aaagggcagc ccgagaacc acaggtgtac acctgcccc 2700
137 catcccgga agagatgacc aagaaccagg tcagcctgac ctgcctggtc 2750
139 aaaggcttct atcccagca catcgccgtg gagtgggaga gcaatgggca 2800
141 gccggagaac aactacaaga ccacgcctcc cgtgctggac tccgacggct 2850
143 ccttcttct ctacagcaag ctaccctgg acaagagcag gtggcagcag 2900
145 gggaaacgtc tctcatgctc cgtgatgcat gaggtctctc acaaccacta 2950
147 cagcagaag agcctctccc tgtctccggg taaataagca tgcgacggcc 3000
149 ctagagtccc taacgctcgg ttgcccggg gcgtttttta ttgttaactc 3050
151 atgtttgaca gcttatcctc gataagcttt aatgcggtag tttatcacag 3100
153 ttaaattgct aacgcagtc ggcaccgtgt atgaaatcta acaatgcgct 3150
155 catcgtcatc ctccggcaccg tcaccctgga tgctgtaggc ataggcttgg 3200
157 ttatgccggt actgccgggc ctcttgccgg atatcgtcca ttccgacagc 3250
159 atcgccagtc actatggcgt gctgctagcg ctatatgcgt tgatgcaatt 3300
161 <210> SEQ ID NO: 2
162 <211> LENGTH: 3300
163 <212> TYPE: DNA
164 <213> ORGANISM: Artificial sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: anti-VEGF vector
169 <400> SEQUENCE: 2
170 gaattcaact tctccatact ttggataagg aaatacagac atgaaaaatc 50

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/020,786

DATE: 04/10/2002

TIME: 14:16:45

Input Set : A:\P1793R1.txt

Output Set: N:\CRF3\04102002\J020786.raw

```

172 tcattgctga gttgttattt aagcttgccc aaaaagaaga agagtcgaat 100
174 gaactgtgtg cgcaggtaga agctttggag attatcgtca ctgcaatgct 150
176 tcgcaatatg gcgcaaaatg accaacagcg gttgattgat caggtagagg 200
178 gggcgctgta cgaggtaaag cccgatgccg gcattcctga cgacgatacg 250
180 gagctgctgc gcgattacgt aaagaagtta ttgaagcatc ctcgtcagta 300
182 aaaagttaat cttttcaaca gctgtcataa agttgtcacg gccgagactt 350
184 atagtcgctt tgtttttatt ttttaatgta tttgtaacta gtacgcaagt 400
186 tcacgtaaaa aggttatcta gaattatgaa gaagaatata gcattttctt 450
188 ttgcatctat gttcgttttt tctattgcta caaacgcgta cgctgatata 500
190 cagttgaccc agtccccgag ctccctgtcc gcctctgtgg gcgatagggt 550
192 caccatcacc tgcagcgcaa gtcaggatat tagcaactat ttaaaactgt 600
194 atcaacagaa accaggaaaa gctccgaaa gactgattta cttcacctcc 650
196 tctctccact ctggagtcct ttctcgcttc tctggatccg gttctgggac 700
198 ggatttccact ctgaccatca gcagtctgca gccagaagac ttcgcaactt 750
200 attactgtca acagtatagc accgtgccgt ggacgtttgg acaggggtacc 800
202 aaggtggaga tcaaacgaac tgtggctgca ccatctgtct tcatcttccc 850
204 gccatctgat gagcagttga aatctggaac tgcttctgtt gtgtgcctgc 900
206 tgaataactt ctatcccaga gaggccaaag tacagtggaa ggtggataac 950
208 gccctccaat cgggtaactc ccaggagagt gtcacagagc aggacagcaa 1000
210 ggacagcacc tacagcctca gcagcaccct gacgctgagc aaagcagact 1050
212 acgagaaaaca caaagctctac gcctgcgaag tcacccatca gggcctgagc 1100
214 tcgcccgtca caaagagctt caacagggga gagtgttaat taaatcctct 1150
216 acgccggagc catcgtggcg agctcggtac ccggggatct aggcctaacg 1200
218 ctcggttgcc gccgggaggt ttttattgtt gccgacgcgc atctcgaatg 1250
220 aactgtgtgc gcaggtagaa gctttggaga ttatcgtcac tgcaatgctt 1300
222 cgcaatatgg cgcaaaatga ccaacagcgg ttgattgata aggtagaggg 1350
224 ggcgctgtac gaggtaaagc ccgatgccag cattcctgac gacgatacgg 1400
226 agctgctgcg cgattacgta aagaagttat tgaagcatcc tcgtcagtaa 1450
228 aaagttaatc ttttcaacag ctgtcataaa gttgtcacgg ccgagactta 1500
230 tagtcgcttt gtttttattt tttaatgtat ttgtaactag tacgcaagtt 1550
232 cacgtaaaaa gggatatctag aattatgaag aagaatatcg catttcttct 1600
234 tgcattctatg ttcgtttttt ctattgctac aaacgcgtac gctgaggttc 1650
236 agctggtgga gtctggcggt ggccctggtgc agccaggggg ctcactccgt 1700
238 ttgtcctgtg cagcttctgg ctacgacttc acgcactacg gtatgaaactg 1750
240 ggtccgtcag gcccggggtg agggcctgga atgggttgga tggattaaca 1800
242 cctataccgg tgaaccgacc tatgctgcgg atttcaaacg tcgtttcact 1850
244 ttttcttttag acacctccaa aagcacagca tacctgcaga tgaacagcct 1900
246 gcgcgctgag gacactgccg tctattactg tgcaaagtac ccgtactatt 1950
248 acggcacgag ccaactggtat ttcgacgtct ggggtcaagg aaccctggtc 2000
250 accgtctcct cggcctccac caagggccca tcggtcttcc ccctggcacc 2050
252 ctccctcaaag agcacctctg ggggcacagc ggccctgggc tgccctggta 2100
254 aggactactt ccccgaaacc gtgacggtgt cgtggaactc aggcgcctctg 2150
256 accagcgggc tgcacacctt cccggctgtc ctacagtcct caggactcta 2200
258 ctccctcagc agcgtggtga ctgtgccctc tagcagcttg ggcacccaga 2250
260 cctacatctg caacgtgaat cacaagccca gcaacaccaa ggtggacaag 2300
262 aaagttgagc ccaaactctg tgacaaaact cacacatgcc caccgtgccc 2350
264 agcacctgaa ctctggggg gaccgtcagt ctctctcttc ccccaaaaac 2400
266 ccaaggacac cctcatgac tcccggaccc ctgaggtcac atgctggtg 2450
268 gtggacgtga gccacgaaga ccctgaggtc aagttcaact ggtacgtgga 2500

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/020,786

DATE: 04/10/2002

TIME: 14:16:45

Input Set : A:\P1793R1.txt

Output Set: N:\CRF3\04102002\J020786.raw

```

270 cggcgtggag gtgcataatg ccaagacaaa gccgcgggag gagcagtaca 2550
272 acagcacgta ccgtgtgggc agcgtcctca ccgtcctgca ccaggactgg 2600
274 ctgaatggca aggagtacaa gtgcaaggtc tccaacaaag ccctcccagc 2650
276 ccccatcgag aaaaccatct ccaaagccaa agggcagccc cgagaaccac 2700
278 aggtgtacac cctgccccca tcccgggaag agatgaccaa gaaccagggtc 2750
280 agcctgacct gcctgggtcaa aggtttctat cccagcgaca tcgcccgtgga 2800
282 gtgggagagc aatggggcagc cggagaacaa ctacaagacc acgcctcccg 2850
284 tgctggactc cgacgggtcc ttcttcctct acagcaagct caccgtggac 2900
286 aagagcaggt ggcagcaggg gaacgtcttc tcatgctccg tgatgcatga 2950
288 ggctctgcac aaccactaca cgcagaagag cctctccctg tctccgggta 3000
290 aataagcatg cgacggccct agagtcccta acgctcggtt gccgccgggc 3050
292 gttttttatt gttaactcat gtttgacagc ttatcatcga taagctttaa 3100
294 tgcggtagtt tatcacagtt aaattgctaa cgcagtcagg caccgtgtat 3150
296 gaaatctaac aatgcgctca tcgtcatcct cggcaccgtc accctggatg 3200
298 ctgtaggcat aggtctgggt atgccgggtac tgccgggcct cttgcgggat 3250
300 atcgtccatt ccgacagcat cgccagtcac tatggcgtgc tgctagcgct 3300
302 <210> SEQ ID NO: 3
303 <211> LENGTH: 35
304 <212> TYPE: DNA
305 <213> ORGANISM: Artificial sequence
307 <220> FEATURE:
308 <223> OTHER INFORMATION: probe
310 <400> SEQUENCE: 3
311 catactggta ccaggatcta gaggggaagat ttatg 35
313 <210> SEQ ID NO: 4
314 <211> LENGTH: 28
315 <212> TYPE: DNA
316 <213> ORGANISM: Artificial sequence
318 <220> FEATURE:
319 <223> OTHER INFORMATION: probe
321 <400> SEQUENCE: 4
322 ctggtgagta ctcaaccaag tcattctg 28
324 <210> SEQ ID NO: 5
325 <211> LENGTH: 33
326 <212> TYPE: DNA
327 <213> ORGANISM: Artificial sequence
329 <220> FEATURE:
330 <223> OTHER INFORMATION: probe
332 <400> SEQUENCE: 5
333 tgcacggtta acatgctgtg gtgtcatggt cgg 33
335 <210> SEQ ID NO: 6
336 <211> LENGTH: 27
337 <212> TYPE: DNA
338 <213> ORGANISM: Artificial sequence
340 <220> FEATURE:
341 <223> OTHER INFORMATION: probe
343 <400> SEQUENCE: 6
344 tttaccgtta acaaacatcg ccggaac 27
346 <210> SEQ ID NO: 7

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/020,786

DATE: 04/10/2002

TIME: 14:16:45

Input Set : A:\P1793R1.txt

Output Set: N:\CRF3\04102002\J020786.raw

```

347 <211> LENGTH: 34
348 <212> TYPE: DNA
349 <213> ORGANISM: Artificial sequence
351 <220> FEATURE:
352 <223> OTHER INFORMATION: probe
354 <400> SEQUENCE: 7
355 tcagctgccg gcgtccgatg cgaattatatt accg 34
357 <210> SEQ ID NO: 8
358 <211> LENGTH: 237
359 <212> TYPE: PRT
360 <213> ORGANISM: Artificial sequence
362 <220> FEATURE:
363 <223> OTHER INFORMATION: anti-TF light chain
365 <400> SEQUENCE: 8
366 Met Lys Lys Asn Ile Ala Phe Leu Leu Ala Ser Met Phe Val Phe
367 1 5 10 15
369 Ser Ile Ala Thr Asn Ala Tyr Ala Asp Ile Gln Met Thr Gln Ser
370 20 25 30
372 Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr
373 35 40 45
375 Cys Arg Ala Ser Arg Asp Ile Lys Ser Tyr Leu Asn Trp Tyr Gln
376 50 55 60
378 Gln Lys Pro Gly Lys Ala Pro Lys Val Leu Ile Tyr Tyr Ala Thr
379 65 70 75
381 Ser Leu Ala Glu Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser
382 80 85 90
384 Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp
385 95 100 105
387 Phe Ala Thr Tyr Tyr Cys Leu Gln His Gly Glu Ser Pro Trp Thr
388 110 115 120
390 Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala
391 125 130 135
393 Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser
394 140 145 150
396 Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg
397 155 160 165
399 Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly
400 170 175 180
402 Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
403 185 190 195
405 Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
406 200 205 210
408 Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser
409 215 220 225
411 Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
412 230 235
414 <210> SEQ ID NO: 9
415 <211> LENGTH: 470
416 <212> TYPE: PRT

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/020,786

DATE: 04/10/2002

TIME: 14:16:46

Input Set : A:\P1793R1.txt

Output Set: N:\CRF3\04102002\J020786.raw

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date